Programming Exercise #3

Write a program to simulate Segmentation. Compute the physical address. Take as input:

- 1. Segment number
- 2. Base address
- 3. Segment limit

4.

```
#include <stdio.h>
#include <stdlib.h>
int main()
    int segment_number, base_address, segment_limit, offset,
physical_address:
   printf("Enter segment number: ");
   scanf("Xd", &segment_number);
   printf("Enter base address: ");
   scanf("%d", &base_address);
   printf("Enter segment limit: ");
   scanf("%d", &segment_limit);
   // Input offset
   printf("Enter offset: ");
   scanf("%d", &offset):
    if (offset >= segment_limit) {
       printf("Error: Offset is outside the segment limit.\n");
       exit(0):
   physical_address = base_address + offset;
   printf("Physical address: Xd\n", physical_address);
   return 0;
Enter segment limit: 150
 Enter offset: 2
Physical address: 25
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```